

## Evolutionary Dynamics Exploring The Equations Of Life Ma Nowak

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### Evolutionary Dynamics Exploring The Equations

Any observation of a living system must ultimately be interpreted in the context of its evolution. Evolutionary change is the consequence of mutation and natural selection, which are two concepts that can be described by mathematical equations. Evolutionary Dynamics is concerned with these equations of life.

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An interesting introduction to evolution and the equations that govern it. The book gets started with an introduction to the concept of evolution and how replication, mutation, and selection, affect it. Every simple mechanism that is in action in nature, is modeled using differential equations.

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Evolutionary change is the consequence of mutation and natural selection, which are two concepts that can be described by mathematical equations. Evolutionary Dynamics is concerned with these equations of life. In this book, Martin A. Nowak draws on the languages of biology and mathematics to outline the mathematical principles according to which life evolves.

### Evolutionary Dynamics — Martin A. Nowak | Harvard ...

The resulting evolutionary dynamics are no longer described by deterministic differential equations, but require a stochastic formulation. The best approach for studying a biological problem is to try a deterministic description first and then move to a stochastic analysis only when the deterministic one misses relevant aspects.

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### EVOLUTIONARY DYNAMICS - Harvard University

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Evolutionary Dynamics provides a new generation with an opportunity to draw from the masters.-- (12/22/2006) Two of the crucial processes that drive evolution, mutation and selection, can be described with mathematical equations. This book introduces the reader to the basic mathematical laws that govern the evolution of life...

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### Nowak, M: Evolutionary Dynamics: Exploring the Equations ...

The traditional framework of evolutionary game theory rests on differential equations, which describe deterministic dynamics in well-mixed and infinitely large populations. At the centre of this endeavour is the so-called 'replicator equation' ( Taylor & Jonker 1978 ; Hofbauer et al. 1979 ; Zeeman 1980 ), where  $x_i$  is the frequency and  $f_i$  ...

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transcends all of biology. Any observation of a living system must ultimately be interpreted...

**Evolutionary Dynamics : Exploring the Equations of Life ...**

Evolutionary game theory (EGT) is the application of game theory to evolving populations in biology. It defines a framework of contests, strategies, and analytics into which Darwinian competition can be modelled. It originated in 1973 with John Maynard Smith and George R. Price's formalisation of contests, analysed as strategies, and the mathematical criteria that can be used to predict the ...

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